

## **AMENDMENTS TO THE CLAIMS**

Please amend the claims as follows:

1-3. (Canceled).

4. (New) A system to provide a remote computing client access to resources provided by at least one server in at least one target computing network, comprising:

a point of presence node communicatively connected to the at least one target computing network; and

at least one Internet Protocol Security concentrator resident in the point of presence node;

at least one access server resident in the point of presence node, wherein the access server comprises a virtual private network module which implements a secure communication channel between the remote computing client and the at least one server in the target communication network.

5. (New) The system of claim 4, wherein the remote computing device comprises a virtual private network module which cooperates with the virtual private network module resident in the point of presence node.

6. (New) The system of claim 5, wherein:

the virtual private network module in the remote client communicates with the virtual private network module in the access server using a message exchange mode; and

the virtual private network module in the remote client receives application layer data from at least one application executing on the remote client.

7. (New) The system of claim 6, wherein the virtual private network module in the access server implements a proxy client for at least one application executing on the remote computing device.

8. (New) The system of claim 5, wherein the virtual private network module in the remote client and the virtual private module in the access server

establish an encrypted communication channel between a specific application executing on the remote client and the point of presence node.

9. (New) The system of claim 8, wherein the virtual private network module in the remote client:

- generates a first encryption data set comprising a public portion and a private portion; and

- transmits the public portion of the first encryption data set to the virtual private network server in a session set-up message.

10. (New) The system of claim 5, wherein the remote computing device further comprises a reconfiguration system module which collects system configuration data relating to the remote computing device, generates a system configuration file, and stores the system configuration file in a memory module in the remote computing device.

11. (New) The system of claim 10, wherein the at least one access server comprises:

- a central policy manager module that establishes configuration policies for one or more remote clients that access resources via the virtual private network server; and

- a reconfiguration system module that cooperates with the reconfiguration system module in the remote computing device to impose configuration changes on the remote computing device.

12. (New) The system of claim 10, wherein the reconfiguration system implements an atomic reconfiguration process on the remote computing device.

13. (New) The system of claim 5, wherein the remote computing device comprises a local proxy module that emulates an HTTP proxy server.

14. (New) The system of claim 10, wherein the remote computing device comprises a client application tunneling module, wherein the client application tunneling module extracts destination IP addresses and port numbers from communication packets and invokes the reconfiguration

system module to reconfigure a name-to-address mapping for communications between the remote computing device and an application executing on a remote server.

15. (New) The system of claim 5, wherein at least one server in the point of presence node further comprises a network address translation module that performs network address translation on incoming and outgoing packets to enable remote access to resources on one or more networks outside the target computing network.

16. (New) The system of claim 15, wherein the network address translation module automatically determines a network configuration for the target network.

17. (New) The system of claim 5, wherein:

- the at least one access server comprises a first network backup module;

- the remote computing device comprises a second network backup module; and

- the first network backup module and the second network backup module cooperate to back up and restore one or more files from the remote access server.

18. (New). The system of claim 17, wherein the first network backup module maintains incremental backups of files used by the remote computing device.